

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A method for use in a Web Services system having complex UDDI object(s) ~~having at least one non-compound data structure and at least one compound data structures, each compound data structure having at least one value, each value having a plurality of fields,~~ the method comprising:

providing ~~in a Dictionary parent object, an attribute representing each non-compound data structure; and~~ a database for storing at least one directory parent object within a first object class, the at least one directory parent object including a plurality of attributes, the at least one directory parent object comprising a repeating attribute that occurs more than once in the at least one directory parent object;

~~providing for each at least one value, a Directory child object having an attribute representing each field of compound data structure~~ using a processor in communication with the database to create a first directory child object for storing a first value associated with the repeating attribute, the first directory child object also within the first object class; and

storing, in the database, the value associated with the repeating attribute in the first directory child object.

2. (Currently Amended) ~~A method~~ The method as recited in claim 1, further comprising ~~repeating providing for each at least one value where the field is compound~~ using the processor to create a second directory child object for storing a second value associated with the repeating attribute, the second child object also within the first object class.

3. (Currently Amended) ~~A method~~ The method as recited in Claim 1, wherein the ~~complex UDDI object(s)~~ the parent object is at the least one of a Business Entity, Business Service, Binding Template and TModel.

4. (Currently Amended) A method of flattening a hierarchy in a Web Services arrangement, the method comprising:

providing a database for storing a plurality of UDDI objects;

~~determining whether any~~ using a processor in communication with the database to determine that a portion of a hierarchical structure or relationship in the Web Services arrangement has a 'one-to-one' relationship between first and second objects; and

~~removing that~~ using the processor to remove the portion of the ~~hierarchy~~ hierarchical structure or relationship determined to have ~~a one-to-one~~ the 'one-to-one' relationship by moving ~~contents of attributes into at least one child portion of the hierarchy~~ a content of the second object into a third object, each of the second and third objects comprising a child object of the first object.

5. (Currently Amended) A computer recording medium including computer executable code for performing a Web Services method for use in a Web Services arrangement having complex UDDI object(s) ~~having at least one non-compound data structure and at least one compound data structures, each compound data structure having at least one value, each value having a plurality of fields,~~ comprising;

code for providing ~~in a Director parent object, an attribute representing each non-compound data structure; and~~ a database for storing at least one directory parent object within a first object class, the at least one directory parent object including a plurality of attributes, the at least one directory parent object comprising a repeating attribute that occurs more than once in the at least one directory parent object;

code for ~~providing for each at least one value, a Directory child object having an attribute representing each field of compound data structure~~ creating a first directory child object for storing a first value associated with the repeating attribute, the first child object also within the first object class; and

code for storing the value associated with the repeating attribute in the first directory child object, the first directory child object also within the first object class.

6. (Currently Amended) ~~A computer~~ The computer recording medium as recited in claim 5, further comprising code for ~~repeating providing for each at least one value where the field is compound~~ using the processor to create a second directory child object for storing a second value associated with the repeating attribute, the second child object also within the first object class.

7. (Currently Amended) ~~A computer~~ The computer recording medium as recited in claim 5, where in the ~~complex UDDI object(s)~~ the parent object is at least one of a Business Entity, Business Service, Binding Template and TModel.

8. (Currently Amended) A computer recording medium including computer executable code for flattening a hierarchy in a Web Services arrangement, comprising:

code for determining ~~whether any~~ that a portion of a hierarchical structure or relationship in the Web Services arrangement has a 'one-to-one' relationship between first and second objects; and

code for removing ~~that the~~ portion of the ~~hierarchy~~ hierar chical structure or relationship determined to have ~~a one-to-one~~ the 'one-to-one' relationship by moving ~~contents of attributes into at least one child portion of the hierarchy~~ a content of the second object into a third object, each of the second and third objects comprising a child object of the first object.

9. (New) The computer recording medium as recited in Claim 8, wherein the first object is at the least one of a Business Entity, Business Service, Binding Template and TModel.

10. (New) The computer recording medium as recited in Claim 8, wherein the second object is a relationship object.

11. (New) The method as recited in Claim 4, wherein the first object is at the least one of a Business Entity, Business Service, Binding Template and TModel.

12. (New) The method as recited in Claim 4, wherein the second object is a relationship object.

13. (New) The method as recited in Claim 1, further comprising creating a searchable index of the first value associated with the repeating attribute.

14. (New) The method as recited in Claim 1, further comprising storing at least one unique attribute in the directory parent object.

15. (New) The method as recited in Claim 14, wherein the directory parent object comprises a Business Entity object and the at least one unique attribute comprises a business key.

16. (New) The method as recited in Claim 15, wherein the first directory child object is selected from the group consisting of name, description, contact, discovery URL, Keyed References, and Business Services.

17. (New) The computer recording medium as recited in Claim 5, further comprising creating a searchable index of the first value associated with the repeating attribute.

18. (New) The computer recording medium as recited in Claim 5, further comprising storing at least one unique attribute in the directory parent object.

19. (New) The computer recording medium as recited in Claim 17, wherein the directory parent object comprises a Business Entity object and the at least one unique attribute comprises a business key.

20. (New) The computer recording medium as recited in Claim 18, wherein the first directory child object is selected from the group consisting of name, description, contact, discovery URL, Keyed References, and Business Services.